

REMARKS

I. Status of the Claims

Claims 1-31 are currently pending in this application. By this Amendment, claims 1, 3, 5, 7-10, 12-13, 10, 15-16, and 18-19 are amended for minor editorial purposes, and new claims 21-31 are added. No new matter has been added. Support for the claims can be found throughout the specification, including the original claims, and the drawings. Reconsideration in view of the above amendments and following remarks is respectfully requested.

II. Allowable Subject Matter

Applicants wish to thank the Examiner for indicating that dependent claims 17 and 20 would be allowable if rewritten in independent form to include all of the features of the base claim and any intervening claims. However, for the reasons set forth below, claims 17 and 20 have not been rewritten in independent form at this time.

III. Objections to Title

In response to the objection to the Title of the Invention, Applicants submit, as shown above, that the Title of the Invention has been amended to clearly indicate the description of the invention. Accordingly, withdrawal of the objection is respectfully requested.

IV. Objections to Specification

In response to the objection to Figures 1-5, Applicants submit Figures 1-5 have been amended to designate them as –Related Art--. Accordingly, withdrawal of the objection is respectfully requested.

V. Objections to Claims

In response to the objection to claim 7, Applicants submit that claim 7 has been amended to recite proper antecedent basis and correct an obvious error. Accordingly, withdrawal of the objection is respectfully requested.

VI. Rejection Under 35 U.S.C. §102(b)

The Office Action rejected claims 1, 2, 8-10, 15, 16, 18 and 19 under 35 U.S.C. §102(b) as being anticipated by JP 63-127026 to Sakurai. Applicants respectfully traverse this rejection for at least the following reasons.

As the Office is aware, to anticipate a claim, a single source must contain all of the elements of the claim. MPEP §2131; *see also Hybritech, Inc. v. Monoclonal Antibodies, Inc.*, 802 F.2d 1379, 231 U.S.P.Q. 81, 90 (Fed. Cir. 1986). Moreover, the single source must disclose all of the claimed elements “arranged as in the claim.” *Richardson v. Suzuki Motor Co.*, 868 F.2d 1226, 1236, 9 USPQ2d 1913, 1920 (Fed. Cir. 1989). In the present case, the claims are not anticipated because Sakurai does not teach or suggest all of the claimed elements of independent claim 1, or the combination thereof.

In particular, instant claim 1 recites, *inter alia*, “a fan housing for protecting the fan,” as well as “an air duct positioned at least partially between the first and second branch ducts.” As pointed out in the English abstract of Sakurai, however, for the reduction of costs, the “cooling structure is formed such that two magnetrons, two high voltage transformers, one centrifugal fan, and one propeller are arranged to one side of a heating chamber.” (Emphasis added). The fan and the propeller are not protectively or separately housed, but included with the other components of the cooling structure. This deficiency is also demonstrated by Figures 1-3 of Sakurai, which clearly do not show that the fan is encased in a protective housing. Further, as shown in Figures 1-3 of Sakurai, Sakurai clearly does not disclose or suggest an air duct positioned at least partially between the first and second branch ducts. Centrifugal fan 7 and air guide 8 are positioned clearly above the transformers 9, 10. Thus, for at least this reason, Sakurai does not teach all of the elements of the claims.

Accordingly, withdrawal of the rejection of independent claim 1 over Sakurai is respectfully requested. Dependent claims 2, 8-10, 15-16, and 18-19 are allowable over Sakurai for at least the reasons discussed above with respect to independent claim 1, from which they ultimately depend, as well as for their added features.

VII. Rejection Under 35 U.S.C. §103(a)

The Office Action has rejected claims 3-7 and 11-14 under 35 U.S.C. §103(a) as being unpatentable over Sakurai in view of U.S. Patent No. 5,814,793 to Yu. Applicants respectfully traverse this rejection for at least the following reasons.

Dependent claims 3-7 and 11-14 are allowable over Sakurai for at least the reasons discussed above with respect to independent claim 1, from which they ultimately depend, as well as for their added features. Yu fails to overcome the deficiencies of Sakurai as Yu is merely cited for disclosing air holes in the inner case. Accordingly, the rejection should be withdrawn.

VIII. Added Claims

Added claims 21-31 also define over the applied prior art.

IX. Conclusion

In view of the foregoing amendments and remarks, it is respectfully submitted that the application is in condition for allowance. If the Examiner believes that any additional changes would place the application in better condition for allowance, the Examiner is invited to contact the undersigned attorney, **Carol L. Druzbeck**, at the telephone number listed below. Favorable consideration and prompt allowance are earnestly solicited.

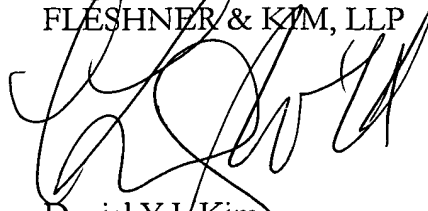
To the extent necessary, a petition for an extension of time under 37 C.F.R. 1.136 is hereby made. Please charge any shortage in fees due in connection with the filing of this,

Serial No. 10/713,271
Reply to Office Action dated April 6, 2004

Docket No. K-0550

concurrent and future replies, including extension of time fees, to Deposit Account 16-0607
and please credit any excess fees to such deposit account.

Respectfully submitted,
FLESHNER & KIM, LLP

A handwritten signature in black ink, appearing to read 'Daniel Y.J. Kim', is written over the printed name and firm name.

Daniel Y.J. Kim
Registration No. 36,186
Carol L. Druzbeck
Registration No. 40,287

P.O. Box 221200
Chantilly, Virginia 20153-1200
703 766-3701

Date: July 6, 2004

Please direct all correspondence to Customer Number 34610